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An update of this bestselling textbook presenting a clear, concise and up-to-date introduction to cosmology for physicists or anyone with an interest in cosmology.

The Third Edition of the hugely successful Introduction to Cosmology provides a concise, authoritative study of cosmology at an introductory level. Starting from elementary principles and the history of cosmology, the text carefully guides the student on to curved spacetimes, general relativity, black holes, cosmological models, particles and symmetries, and phase transitions. Extensively revised, this latest edition includes broader and updated coverage of distance measures, gravitational lensing and waves, dark energy and quintessence, the thermal history of the Universe, inflation, large scale structure formation, and the 'cosmological coincidence' problem. Illustrated throughout and comprehensively referenced with problems at the end of each chapter. Includes more material on observational astrophysics and expanded sections on astrophysical phenomena. Latest observational results from the WMAP satellite and the 2 degree Field Galaxy Redshift Survey.

Publisher Description

A substantial update of this award-winning and highly regarded cosmology textbook, for advanced undergraduates in physics and astronomy.

This introductory textbook describes modern cosmology at a level suitable for advanced undergraduates who are familiar with mathematical methods and basic theoretical physics. An introductory survey of the large scale structure of the universe is followed by an outline of general relativity. This is then used to construct the standard models of the universe. The very early and early stages of the Big Bang are described, and this includes primordial nucleosynthesis, grand unified theories, primordial black holes, and the era of quantum cosmology. The problem of the formation of structure in the universe is then addressed. This textbook concludes with brief outlines of alternative cosmologies. It includes 400 problems for students to solve, and is accompanied by numerous worked examples.

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Providing students with an in-depth account of the astrophysics of high energy phenomena in the Universe, the third edition of this well-established textbook is ideal for advanced undergraduate and beginning graduate courses in high energy astrophysics. Building on the concepts and techniques taught in standard undergraduate courses, this textbook provides the astronomical and astrophysical background for students to explore more advanced topics. Special emphasis is given to the underlying physical principles of high energy astrophysics, helping students understand the essential physics. The third edition has been completely rewritten, consolidating the previous editions into one volume. It covers the most recent discoveries in areas such as gamma-ray bursts, ultra-high energy cosmic rays and ultra-high energy gamma rays. The topics have been rearranged and streamlined to make them more applicable to a wide range of different astrophysical problems.

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